

CLAIMS

1. An anti-adhesion membrane comprising a biodegradable film having a honeycomb structure.
2. The anti-adhesion membrane according to claim 1, which is characterized in that the honeycomb structure has a mean void inner diameter of not more than 20 μm .
3. The anti-adhesion membrane according to claim 1 or 2, which is characterized in that only one surface of the film has the honeycomb structure.
4. A biodegradable film having a honeycomb structure and comprising a biodegradable polymer and a surfactant, which is characterized in that said surfactant is a phospholipid.
5. The biodegradable film having a honeycomb structure according to claim 4, wherein said biodegradable polymer is a biodegradable aliphatic polyester and/or a biodegradable aliphatic polycarbonate.
6. The biodegradable film having a honeycomb structure according to claim 5, wherein said biodegradable aliphatic polyester is at least one polymer selected from the group consisting of biodegradable aliphatic polyesters including polylactic acid, a polylactic acid-polyglycolic acid copolymer, polyhydroxybutyric acid, polycaprolactone, polyethylene adipate, and polybutylene adipate.
7. The biodegradable film having a honeycomb structure

according to claim 5, wherein said biodegradable aliphatic polycarbonate is at least one polymer selected from the group consisting of polybutylene carbonate and polyethylene carbonate.

8. The biodegradable film having a honeycomb structure according to any one of claims 4 to 6, which is characterized in that said biodegradable polymer is polylactic acid or a lactic acid-glycolic acid copolymer.

9. The biodegradable film having a honeycomb structure according to claim 4 or 5, wherein said phospholipid is selected from the group consisting of phosphatidyl ethanolamine, phosphatidyl choline, phosphatidyl serine, phosphatidyl glycerol, and derivatives thereof.

10. The biodegradable film having a honeycomb structure according to any one of claims 4 to 9, which is characterized in that said phospholipid is L- α -phosphatidyl ethanolamine.

11. The biodegradable film having a honeycomb structure according to claim 10, which is characterized in that said phospholipid is L- α -phosphatidyl ethanolamine dioleoyl.

12. The biodegradable film having a honeycomb structure according to claim 4, which is characterized in that a composition ratio of said biodegradable polymer to said phospholipid is from 1/1 to 1,000/1.

13. An anti-adhesion membrane comprising the biodegradable film according to claim 4 or 5.

14. A production process of the anti-adhesion membrane according to claim 1 or 13, which is characterized by using a biodegradable polymer film having a honeycomb structure as obtained by casting an organic solvent solution of a biodegradable polymer on a substrate in the atmosphere of a relative humidity of from 50 to 95 %, gradually transpiring said organic solvent and simultaneously condensing it on the surface of said cast liquid, and evaporating fine water droplets as generated by said condensation.